Date: Mon, 2 Aug 93 14:45:23 PDT

From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>

Errors-To: Info-Hams-Errors@UCSD.Edu

Reply-To: Info-Hams@UCSD.Edu

Precedence: Bulk

Subject: Info-Hams Digest V93 #930

To: Info-Hams

Info-Hams Digest Mon, 2 Aug 93 Volume 93 : Issue 930

Today's Topics:

87.5 MHz signal in France
ARRL BULLETIN 73 ARLB073
ARRL BULLETIN 79 ARLB079

Bootlegger At ARRL N.E. Convention Computer coax used for RF; info wanted RACES Bulletin #285

S METERS AND MODERN TECHNOLOGY (2 msgs)
STILL waiting for your license? Read this and weep!
Tech Plus...

TNC keys DJ-580

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu> Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu> Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available (by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text herein consists of personal comments and does not represent the official policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 2 Aug 1993 15:15:31 GMT

From: dog.ee.lbl.gov!overload.lbl.gov!agate!spool.mu.edu!bloom-beacon.mit.edu!

xlink.net!news.dfn.de!news.uni-bielefeld.de!techfak.uni-bielefeld.de!

bsieker@network.ucsd.edu

Subject: 87.5 MHz signal in France

To: info-hams@ucsd.edu

In article <CB4wLw.AnH@dcs.ed.ac.uk>, jhb@dcs.ed.ac.uk (John Butler) writes:
|>

- > Has anyone any idea what the tones permanently resident on 87.5 MHz throughout
- |> France are? At 87.5MHz FM there is a constant tone about 1 KHz which every so
- |> often gives a short cadence then resumes. It is not a single station marker as
- |> I was getting it all up the French west coast and it sounds a bit complex for

|> that. Some data or time signal transmission?

As far as I am informed this signal is present in Germnay, too and is just a sort of beacon that marks the lower edge of the FM Broadcast Band in Europe (88 MHz to 108 MHz).

I was told that this was set up to simplify the adjusting of the tuning capacitor's left edge when fine tuning the device in the factory.

The LF tone makes this 'cadence' to be not mistaken with some noise signal that might be in the vicinity. If you tune a simple FM broadcast receiver in Germany to the left edge, you very often hear that sound.

If anybody knows more (or better), please followup!

```
|> --
|> John Butler
                                    email: jhb@dcs.ed.ac.uk
|> Department of Computer Science
    (ovo)
|> University of Edinburgh | phone: (+44) (0)31-650-5181
          (('-'))
|> Edinburgh EH9 3JZ, UK.
                           fax: (+44) (0)31-667-7209
        _ " _ " _
           Real Life Bernd Sieker, Universitaet Bielefeld
 only //
           IRC
                                       Pink
                                     DG 6 YHI
Amiga__//
           HAM Radio
                          bsieker@techfak.uni-bielefeld.de
     \X/
             email
Minister, minister, care for your children, order them not
into damnation to eliminate those who would trespass against
```

(Fish, Forgotten Sons)

Date: Mon, 02 Aug 93 04:42:51 GMT

From: usc!math.ohio-state.edu!magnus.acs.ohio-state.edu!cis.ohio-state.edu!mstar!

n8emr!bulletin@network.ucsd.edu Subject: ARRL BULLETIN 73 ARLB073

To: info-hams@ucsd.edu

```
| Automatic relayed from packet radio via | | N8EMR's Ham BBS, 614-895-2553 | |
```

ZCZC AG15 QST DE W1AW ARRL BULLETIN 73 ARLB073 FROM ARRL HEADQUARTERS NEWINGTON CT JULY 9, 1993 TO ALL RADIO AMATEURS

SB QST ARL ARLB073 ARLB073 449 MHZ PLAN OPPOSED

449 MHZ PLAN OPPOSED

THE LEAGUE HAS TOLD THE FCC THAT A PROPOSAL TO ALLOCATE THE FREQUENCY 449 MHZ FOR WIND PROFILER RADAR SYSTEMS SHOULD BE BASED ONLY ON CAREFUL COORDINATION PROCESSES AND SITE SELECTION, TO AVOID INTERFERENCE TO AMATEURS, WHO SHARE ON A SECONDARY BASIS THE BAND 420-450 MHZ WITH GOVERNMENT (MILITARY) RADIOLOCATION OPERATIONS.

IN APRIL THE FCC ISSUED AN NOTICE OF PROPOSED RULE MAKING (IN ET DOCKET 93-59) TO MAKE THE ALLOCATION, AND ASKED FOR COMMENTS ON WHETHER WIND PROFILERS SHOULD ALSO BE ACCOMMODATED IN THE 915 MHZ BAND OR ELSEWHERE.

THE LEAGUE TOLD THE FCC THAT THE 420-450 MHZ BAND IS HEAVILY USED BY THE

AMATEUR RADIO SERVICE, ESPECIALLY FOR FM REPEATERS, IT BEING THE SECOND MOST POPULAR VHF/UHF AMATEUR ALLOCATION, WITH MORE THAN 5,000 REPEATERS.

THESE REPEATERS ARE USED FOR PUBLIC SERVICE COMMUNICATIONS, ESPECIALLY IN METROPOLITAN AREAS, AND ARE IMPORTANT IN THE CONNECTION BETWEEN AMATEUR RADIO AND THE GOVERNMENT'S SKYWARN SEVERE WEATHER WARNING SYSTEM, THE LEAGUE SAID.

THE LEAGUE SAID THAT IT APPEARS POSSIBLE THAT GOVERNMENT WIND PROFILERS COULD BE USED IN THIS BAND WITHOUT DISRUPTING EXISTING AMATEUR OPERATIONS, BUT ONLY WITH PROPER COORDINATION, AND THAT NON-GOVERNMENT PROFILERS COULD PRESENT EVEN MORE SERIOUS INTERFERENCE POSSIBILITIES. MORE INFORMATION IS IN QST FOR MAY 1993, PAGE 88.

NNNN

Date: Sat, 31 Jul 93 02:23:24 GMT

From: spool.mu.edu!howland.reston.ans.net!math.ohio-state.edu!pacific.mps.ohio-

state.edu!cis.ohio-state.edu!mstar!n8emr!bulletin@decwrl.dec.com

Subject: ARRL BULLETIN 79 ARLB079

To: info-hams@ucsd.edu

| Automatic relayed from packet radio via | | N8EMR's Ham BBS, 614-895-2553 | |

ZCZC AG21 QST DE W1AW ARRL BULLETIN 79 ARLB079 FROM ARRL HEADQUARTERS NEWINGTON CT JULY 21, 1993 TO ALL RADIO AMATEURS

SB QST ARL ARLB079
ARLB079 BUSINESS RULE TO CHANGE

THE FCC HAS AMENDED ITS RULES TO ALLOW AMATEUR OPERATORS MORE FLEXIBILITY TO PROVIDE COMMUNICATIONS FOR PUBLIC SERVICE PROJECTS AND TO ''ENHANCE THE VALUE OF THE AMATEUR SERVICE IN SATISFYING PERSONAL COMMUNICATIONS NEEDS.''

THE NEW RULES ARE BASED ON A COMMISSION PROPOSAL ANNOUNCED IN A NOTICE OF PROPOSED RULEMAKING IN JULY, 1992, A PROPOSAL RESULTING FROM AN ARRL REQUEST. THE LEAGUE AT THAT TIME SUGGESTED THAT NEW LANGUAGE FOR THE RULES WOULD PERMIT AMATEURS GREATER FLEXIBILITY IN PROVIDING NONCOMMERCIAL COMMUNICATIONS WHILE MAINTAINING THE TRADITIONAL CHARACTER OF AMATEUR RADIO BY CONTINUING TO PROHIBIT ROUTINE BUSINESS COMMUNICATIONS.

THE COMMISSION IN ANNOUNCING THE RULES CHANGE (IN PR DOCKET 92-136) SAID THE NEW RULES WOULD PERMIT AMATEURS TO ''FACILITATE EVENTS SUCH AS RACES AND PARADES, TO SUPPORT EDUCATIONAL ACTIVITIES, TO PROVIDE PERSONAL COMMUNICATIONS SUCH AS MAKING APPOINTMENTS AND ORDERING FOOD, TO COLLECT DATA FOR THE NATIONAL WEATHER SERVICE, AND TO PROVIDE ASSISTANCE VOLUNTARILY EVEN WHERE THERE ARE OTHER AUTHORIZED RADIO SERVICES AVAILABLE.''

THE FCC STOPPED SHORT OF GRANTING AN ARRL REQUEST FOR FURTHER DEFINITION OF ACCEPTABLE COMMUNICATIONS, PARTICULARLY IN THE DIFFERENCE BETWEEN A REGULAR AND AN IRREGULAR EVENT, SAYING THAT PROVIDING SUCH ANECDOTAL EXAMPLES ''WOULD NECESSITATE THAT THE FCC INTRUDE UPON THE DAY-TO-DAY FUNCTIONING OF THE SERVICE TO A FAR GREATER DEGREE TMAN DESIRED.'' THE FCC SAID THAT GENERATING A LIST OF THE THOUSANDS OF POSSIBLE EXAMPLES WOULD UNDULY TAX THE

^{&#}x27;'BUSINESS RULES'' TO CHANGE

COMMISSION'S STAFF.

THE WORDING OF THE NEW RULES IS NOT YET AVAILABLE AND THUS THE NEW RULES ARE NOT YET IN EFFECT. THE FULL TEXT OF THE FCC'S NPRM IS IN SEPTEMBER 1992 QST, PAOE 62.

NNNN

Date: Mon, 2 Aug 1993 20:03:54 GMT

From: spool.mu.edu!agate!usenet.ins.cwru.edu!ukma!rsg1.er.usgs.gov!

dgg.cr.usgs.gov!bodoh@uunet.uu.net

Subject: Bootlegger At ARRL N.E. Convention

To: info-hams@ucsd.edu

In article <1993Aug2.161846.7194@Rapnet.Sanders.Lockheed.Com>,
babb@rapnet.sanders.lockheed.com (Scott Babb) writes:

|>...

|> to lunch. As we ate, I noticed the same "I don't have a license" lady

- |> walking along, yakking away into her speaker-mic. I was quite
- |> surprised at her blatant bootlegging (If she didn't have a license
- |> before the test, she didn't have a callsign, no matter what happened
- |> at the test.) I pointed her out to my friend. My friend said that
- |> she had heard the VE telling the lady that she had blown whatever
- |> exam she had taken, and then the lady had gotten up and left (confirming
- |> what my friend had heard, since the lady didn't wait around for a CSCE.)

|>

|> -wa1vht

|>

Hmmm.... kind of makes you wonder who she was talking to and what call she was using - if any. I guess a good move would have been to find out what frequency she was on and see if a licensed amateur was talking to her - and then contact them. Another possibility is that she was not really talking

You are right - for a self policing organization, many hams seem as unwilling as the FCC to do anything - and those that are willing can get no support in actually resolving a problem.

to anyone, and not even transmitting - just wanted to draw attention...

- + Tom Bodoh Sr. systems software engineer, Hughes STX, NOY?? (in the mail) +
- + USGS/EROS Data Center, Sioux Falls, SD, USA 57198 (605) 594-6830 +
- + Internet; bodoh@dgg.cr.usgs.gov (152.61.192.66)

"Welcome back my friends to the show that never ends!" EL&P

Date: Sat, 31 Jul 1993 04:36:10 GMT

From: csus.edu!netcom.com!netcomsv!bongo!julian@decwrl.dec.com

Subject: Computer coax used for RF; info wanted

To: info-hams@ucsd.edu

In article <CAzoDD.Fq4@crdnns.crd.ge.com> saltzman@crd.ge.com writes:
>Digital Equipment Corporation uses coaxial cable to implement
>their "Computer Interconnect" (CI) high speed computer
>interconnection strategy among VAX and Alpha computers.
>

>Does anyone have information on the characteristics of this >cable and its applicability to RF transmission line use? deleto

> DEC P/N 1700248-01 Rev. C Signal Coax Astro 1478 AWM > " Belden 1478

>The cable is about the same size as RG-8 but has a light blue >outer covering instead of black. It has N-type connectors attached. >I can't seem to find a cable #1478 in any of my cable catalogs.

Cable catalogs? The Belden catalog? Well lets have a look, just for giggles:

Belden Master Catalog 885

Here's a likely heading: U.L. Cable and Cordage Finder Chart.

And there it says "1478 Pps 84,187"

Wonder what it says on those pages:

Well page 84 is Broadcast and computer cables.

1478 is RG-62A/U type cable 93 Ohms.

This is the same cable that is used with ARCNET. Not much use for radio.

But, 1478 is a U.L. spec. This is concerned with whether it will catch fire etc.

On page 187 of the same catty is another cable with U.L. number 1478. It is Belden cable 9880. Better known as Thick Ethernet cable. Thick Ethernet cable is fancy RG-8, 50 Ohm cable. The Ethernet

stuff is available in screaming yellow instead of conservative black.

So, what does this tell us? The cable you have could be any impedance. But seeing as it has type Ns on it, we can assume it is Thick Ethernet cable. DEC in their wisdom, probably don't want to say "This is 50 Ohm Standard Thick Ethernet cable". Then you might buy it at Joe's telco warehouse for 30% of what DEC charges for it.

Julian Macassey, N6ARE julian@bongo.tele.com Voice: (213) 653-4495 Paper Mail: 742 1/2 North Hayworth Avenue, Hollywood, California 90046-7142

Date: 1 Aug 93 16:48:32 GMT From: news-mail-gateway@ucsd.edu Subject: RACES Bulletin #285

To: info-hams@ucsd.edu

Bid: \$RACESBUL.285

TO: ALL EMERGENCY MANAGEMENT AGENCIES VIA AMATEUR RADIO

INFO: ALL RACES OPERATORS IN CA (ALLCA: OFFICIAL)

ALL AMATEURS U.S. (@ USA: INFORMATION)

FROM: CA STATE OFFICE OF EMERGENCY SERVICES

(KH6GBX @ WA6NWE.CA)

2800 Meadowview Rd., Sacramento, CA 95832

(916) 262 - 1600

Landline BBS open to all: (916) 262-1657

RACESBUL.285 DATE: August 2, 1993

SUBJECT: OPS - Familiarization and the EOC

In an emergency the fire chief, police chief and mayor don't go to a home and run things from there, but to the emergency operations center or designated command post.

So it is with communications reserve participants. They are expected to go to the government's communications facility and to other locations that need such support. A home based station is of little use in those situations.

Going to the place where they will be functioning helps familiarize them with not only the equipment, but the place and the people. If they participate only once in a while they really don't understand their role and relationship to the agency. They need help in understanding how regular participation is indeed a joint recognition of their worth. After all, if they don't come in regularly to help as help is needed, how can they get to know

us; or we, them?

Familiarization has many facets, from learning to use equipment, to what systems do what, to discovering a radio that interferes with the telephone system, or a computer that doesn't work, or a secretary who doesn't know their name; or an agency person who doesn't know there is a RACES unit. Or an Amateur who is an unrepresentative example of those who DO participate on a professional level.

Communications reserve participants need to become a familiar face at the emergency response agency. Help them tackle needed tasks and prove worth - NOW - long before it is needed. Then, when it is needed there will be mutual benefits that all will share. Yes, this may take a change of attitude to accomplish, but humans have that characteristic: we can change!

EOM

RACES Bulletins are archived on the Internet at ucsd.edu in hamradio/races and can be retrieved using FTP.

Date: 31 Jul 93 17:46:58 GMT

From: ogicse!emory!rsiatl!ke4zv!gary@network.ucsd.edu

Subject: S METERS AND MODERN TECHNOLOGY

To: info-hams@ucsd.edu

In article <930729094618.17ea@MAR65.MAR.ORA.FDA.GOV>
ODONNELLP@MAR65.MAR.ORA.FDA.GOV writes:

>Paul, OH3LWR wrote:

>>Why not calibrate directly in dBm or even dBW and you don't have to worry >>about what impedance is used.

>Paul, I thought that dbm was referenced to 1mw across 50 ohms. Is that >not right?

No, dbm is simply a power ratio referenced to 1 milliwatt. If you want a specific *voltage* to represent a given power level, then you also have to specify the impedance across which it's measured.

>>One might even ask why signal reports are given in "absolute" units >>(dBm, dBuV or even "calibrated" S-units). For communication purposes >>the interesting thing is signal to noise ratio, not the signal level.

That's *one* interesting thing, but if you're trying to compare antennas

or amplifiers, or trying to track propagation, knowing relative signal *strength* at a distant point may be the interesting thing.

>That's why I really like Kevin's suggestion of the dbuv meter that >used to be so widely used. Your suggestion about the dbm direct is >similar (the one is directly tied to the other of course)! Either >does the job better than a S-(illy) meter. At least the references >are clearly defined and absolute!

The S scale is also clearly defined, and tied to an absolute value, 50 uv across 50 ohms for S9 at HF. The problem is that manufacturers aren't building equipment that implements the S scale properly. The problem with the direct dbm scale is that it becomes cumbersome to implement on an analog readout for the wide signal variations possible at HF, and digital readouts don't give the proper "feel" for relative magnitudes that an analog scale offers. The S scale has few enough units over the range of interest to be easily interpreted. It'd be nice to have *both* available.

Gary

- -

Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary
Destructive Testing Systems | we break it. | uunet!rsiatl!ke4zv!gary
534 Shannon Way | Guaranteed! | emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244 |

Date: 31 Jul 1993 14:33:59 +0300

From: pipex!sunic!news.funet.fi!butler.cc.tut.fi!lehtori.cc.tut.fi!not-for-

mail@uunet.uu.net

Subject: S METERS AND MODERN TECHNOLOGY

To: info-hams@ucsd.edu

ODONNELLP@MAR65.MAR.ORA.FDA.GOV wrote:

- > Paul, OH3LWR wrote:
- > >Why not calibrate directly in dBm or even dBW and you don't have to worry
- > >about what impedance is used.
- > Paul, I thought that dbm was referenced to 1mw across 50 ohms. Is that
 > not right?

dBm is defined as the power relative to 1 mW.

In RF-circuits the impedance is usually 50 ohms.

In telephone circuits the levels are defined in dBm across 600 ohms.

0 dBm across 600 ohms gives 0.775 V and I think this was the reference voltage level in V.U.-meters. Those "VU-meters" found in consumer grade tape recorders are not usually calibrated to this voltage level.

>>One might even ask why signal reports are given in "absolute" units >>(dBm, dBuV or even "calibrated" S-units). For communication purposes >>the interesting thing is signal to noise ratio, not the signal level.

- > Yep, that's true! But we somehow got caught up in the S scale as
- > being somehow suggestive of the 'readability'. The 'R' in RST is
- > for READABILITY, and of course the 'S' is supposed to relate to
- > the level! This thread is centered on the level, as that is what
- > the darn S-meter is supposed to tell us; it just doesn't do a very
- > accurate job of it! Somewhere along the way in amateur practice
- > the R was superseded by the S in many (most) hams ego's I think!
- > I've heard it a zillion times on the bands when a guy will give
- > a report of 5x9, and then ask the dude to repeat everything he
- > said!

There is a real problem when you can not get a reliable report, it is hard to know if you are using excessive transmitting power. When you get a 59(9) report, the signal at the other end could be anything from just readable to S9+60 dB.

If I get a S9 or S9+something report, I reduce the power by 10 db and tell about it and then ask for a new report. If it is still 59, I assume that the signal quality is still adequate. If the new report was too good, then it is his problem as I warned that I was going to try a lower power. If more people would start doing this, I think we could get more honest reports and the interference levels on our bands would drop.

- > Paul
- > WB20YC

Paul OH3LWR

Date: Sun, 1 Aug 1993 19:39:16 GMT

Date. Juli, 1 Aug 1993 19.39.10 um

From: haven.umd.edu!darwin.sura.net!perot.mtsu.edu!raider!theporch!jackatak!

root@ames.arpa

Subject: STILL waiting for your license? Read this and weep!

To: info-hams@ucsd.edu

dts@banyan.com (Daniel Senie) writes:

```
> |> Then,
> |> if they'd only send some of that coffee to the NYC/LI Section Manager
> |> to get him to answer his mail more often than once every couple of
> |> months...:-) [Is this a common problem with SCMs? Volunteering and
> |> then deciding they don't want the job?]
>
> Vote for someone else next time, or better yet, run for the job yourself! I
> decided to do just that up here in Western Massachusetts. I'd like to see
> better communications among the members of the sections and have ideas
> on how to do that. Therefore, I decided to take a crack at it myself.
> If I win, it'll mean big time commitment, but it is for a good cause, IMHO.
```

Congratulations, Dan, and very good luck with your candidacy. I am running against an incumbent who appears only during election years and who seems to avoid long range thinking.

However, I am not going after our Section Manager, who does a quite creditable job. I am filing nomination petitions for Delta Division Director, and seek to add some technical understanding and knowledge (and access to the collective wisdom of the 'Net at the Board of Director level; ^).

The process will be difficult, too, for the incumbent, while far younger chronologically than I, is everything Wayne Green calls an OF, and I like to believe there is much yet for me to learn.

Best of Luck... Hope to see you in Newington or elsewhere. Join up and help us change things for the better! 73 Jack

Date: 2 Aug 93 15:08:16 EDT

From: psinntp!arrl.org@uunet.uu.net

Subject: Tech Plus...
To: info-hams@ucsd.edu

In rec.radio.amateur.misc, tzinn@cisco.com (Tom Zinn) writes:
>Can anyone give me the ARRL address for a Tech+ info packet...or suggest
>another place to look for information.
>
>I'm also looking for a location to take the exam when I'm ready.
>
>Can anyone point me in the right direction?
>
>Thanks in advance,
>

You bet, Tom -- here's the usual blurb I post here every week or so which will answer your questions nicely...

- -

A reminder to all that the American Radio Relay League continues to make available to Amateur Radio Operators and non-amateurs alike a wide variety of free materials and services. Of particular interest to the not-yet-licensed individual would be the ARRL Prospective Ham Package. In the PHP, one would find:

-

1. Printouts of Volunteer Examination session opportunities in his/her area.

- '

2. Listings of Amateur Radio clubs in his location.

-

3. Helpful promotional material about the Amateur Radio Service.

_

The already-licensed individual might well be interested in another free ARRL publication, the ARRL Public Service Communications Manual. The PSCM represents the "bible" of public service communications, and clearly/concisely points out how the ARRL National Traffic System and the ARRL Amateur Radio Emergency Service function as a cohesive unit to provide the maximum support to the public both in times of disaster as well as "normal" times.

-

To obtain any of these, simply provide me with:

-

- A. Your name
- B. Your mailing address
- C. A Specific request for either of the two services above.

_

```
Deputy Manager, Field Services, ARRL.
        |___| The ARRL Amateur Radio Emergency Service, the ARRL | urder National Traffic System, The Amateur Auxiliary to
l uck
                    the FCC's Field Operations Bureau, the ARRL
    KY1T
                     Field Organization and the ARRL Monitoring System.
______
lhurder@arrl.org Prodigy - MGTS39A, BIX - ARRL,
   MCI Mail - RPALM, MCI Mail - "ARRL", America On Line - "ARRL HQ"
        Compuserve - 70007,3373 (ARRL HQ) -- Genie ARRL.HQ
Date: Mon, 2 Aug 1993 13:39:43 GMT
From: pravda.sdsc.edu!news.cerf.net!usc!cs.utexas.edu!swrinde!gatech!wa4mei!ke4zv!
gary@network.ucsd.edu
Subject: TNC keys DJ-580
To: info-hams@ucsd.edu
In article <CAxEGs.4qF@hpbbrd.bbn.hp.com> uweb@hpbbn.bbn.hp.com writes:
>: >: pull-down resistor. (Not too small, though!)
>: >:
>: You can get the mini-stero plug form Mosler Electronics, the center
>: connector is supose to have 5 volts on it. I was told by an Alinco tech that
>: you could damage the rig by shorting the connection.
> That's a BBB (big bunch of baloney). The 5V are connected through a 100 Ohms
> resistor to the connector. Now figure (5*5)/100 thats 250 mW. Its quite hard
> to damage an SMD-resistor or even the 5V regulator with that.
```

While it's likely that nothing will be harmed, do note that most SMD resistors are rated for 1/8th watt dissipation, not 1/4 watt. So you'll be pulling twice the rated power through the resistor. Because of the heatsinking effect of the circuit board, and because of the intermittant nature of the short, the resistor probably won't be harmed. Now the short is going to add 50 milliamps to the regulator's load. Assuming that a 78L05, or equivalent, is being used, that's half it's rated output. So you may be exceeding it's ratings due to the other loads it's powering. Finally, 50 mils is 50 mils you really don't want to be draining from the battery if you want long service from a charge. The proper plug isn't that expensive, use it.

Gary

_ _

Gary Coffman KE4ZV | You make it, | gatech!wa4mei!ke4zv!gary

S ,	ak it. uunet!rsiatl!ke4zv!gary teed! emory!kd4nc!ke4zv!gary 		
Date: 2 Aug 1993 16:08:03 GMT From: dog.ee.lbl.gov!overload.lbl.gov!a sdd.hp.com!col.hp.com!gregt@network.ucs To: info-hams@ucsd.edu	gate!spool.mu.edu!uwm.edu!cs.utexas.edu! d.edu		
References <drt.93jul29103806@cacciatore.mit.edu>, <drew.12.0@trl.oz.au>, <23jahf\$ktb@senator-bedfellow.MIT.EDU>~W Subject : Re: SK and a haircut (was:)</drew.12.0@trl.oz.au></drt.93jul29103806@cacciatore.mit.edu>			
David R Tucker (drt@athena.mit.edu) wrote:			
: 2. There's a custom, which I have only heard carried out in full on the : Novice bands, to sign like this: {SK} KA2CEI DE KA2DEF ESE EE. Or at : least that's what it sounds like. It's really Roger Rabbit's favourite : rhythm: "Shave and a haircut - two bits!"			
: (Lore: I saw on TV once a Vietnam ve : there used this tapping sound to iden 	·		
"Shave and a haircut" has been in use at least since I got my Novice in 1960. This predates Vietnam POW's by a bit and Roger Rabbit by a whole bunch. I'd bet that it started long before 1960. Are there any older-timers out there who could pin down a beginning to this practice?			
: and this satisfying feeling of a complete QSO is what you aptly call "tying the ribbons."			
Agreed!			
: I submit that's because any original : now long forgotten.	reason is no longer applicable and		
I submit that fun and satisfaction were have been forgotton.	original reasons, but any others		
Greg			
Greg Tarcza WA200D Hewlett-Packard Company P.O. Box 2197 Colorado Springs, CO 80901	Pikes / Peak /-, /-, Soaring / / / /		

719-590-2471	Society	/ ///
gregt@col.hp.com		,
: ("dit dit")		
End of Info-Hams Digest V93 #930 **********		